

175599-00005

Permit No. M 00167

MICHIGAN WATER RESOURCES COMMISSION

PERMIT TO DISCHARGE

November 26, 1976 Revision of Permit No. M00167, Issued October 31, 1975

In compliance with the provisions of the Michigan Water Resources Commission Act, as amended, (Act 245, Public Acts of 1929, as amended, the "Michigan Act"),

HI MILL MANUFACTURING COMPANY
1704 Highland Road
Highland, Michigan 48031

is authorized to discharge from a facility located at

1704 Highland Road
Highland, Michigan 48031
Section 23 of Highland Township, Oakland County, T3N, R7E


to the ground waters in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

This permit shall become effective on the date of issuance.

This permit and the authorization to discharge shall expire at midnight, November 1, 1980. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Michigan Water Resources Commission no later than 180 days prior to the date of expiration.

This permit is based on the company's application dated August 26, 1975, and shall supersede any and all Orders of Determination, Stipulation, or Final Orders of Determination previously adopted by the Michigan Water Resources Commission.

Issued this Thirty-first day of October 1975, for the Michigan Water Resources Commission.


W. G. Turney
Assistant Executive Secretary

STATE OF MICHIGAN
WATER RESOURCES COMMISSION
PERMIT # M 00167

NAME OF APPLICANT Hi Mill Manufacturing Company

ADDRESS 1704 Highland Road, Highland, Michigan 48031

Hi Mill Manufacturing Company, Highland, Michigan, has filed with the Water Resources Commission an application dated August 26, 1975, for a permit to discharge treated wastewaters to the waters of the state. The application states that Hi Mill Manufacturing, Highland, Michigan, proposes to dispose of approximately thirteen thousand (13,000) gallons per day of industrial effluent from an existing plant into the ground at its facilities located in Section 23 of Highland Township, Oakland County, Michigan.

The applicant, Hi Mill Manufacturing, is authorized for the duration of this permit to discharge treated wastewaters to the groundwaters of the state in accordance with the conditions specified herein.

I. General Conditions:

A. All discharges shall be consistent with the terms and conditions of this permit. Any changes in production capacity, process modifications or facility expansion which result in new or increased discharges of wastes must be authorized by a new permit or by modification of this permit.

B. After notice and opportunity for a hearing, this Permit may be modified, suspended, or revoked in whole or in part for cause, including, but not limited to:

1. Violation of any terms or conditions of this Permit, obtaining a permit by misrepresentation or failure to disclose fully all relevant facts; or
2. A change in conditions or the existence of a condition which requires either a temporary or permanent reduction or elimination of the authorized discharge.

C. The Permittee shall at all times maintain in good working order and operate, as efficiently as possible, all treatment or control facilities necessary to achieve compliance with the terms and conditions of this permit.

D. This Permit is permissive and its issuance does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations, nor does it obviate the necessity of obtaining such permits or approvals from other units of government as may be required by law. This permit is issued with the understanding that it does not prevent the State of Michigan from subsequent establishment of further requirements for treatment or control at any time.

E. The restrictions and conditions of this Permit shall apply to any person or legal entity which now or shall hereafter own or operate the facilities for which this Permit is issued. The permittee shall immediately notify the Water Resources Commission of such change in ownership or principal operator status for this facility.

II. Special Conditions:

A. All liquid wastes which may have come in contact with any substance used in or incidental to, or resulting from the aluminum, copper, or steel tubing processing operations if disposed of by impounding shall be confined within a designated area enclosed by dykes which are so constructed as to protect against loss or overflow of the contents to the surface waters of the state, and said wastes shall be so treated and controlled in such a manner and with the following restrictions and conditions prior to discharge to impoundment for subsequent sub-surface percolation of the liquid portion of the treated wastewater.

B. Initial Effluent Limitations

1. During the period beginning effective date of this permit and lasting until June 30, 1977 the permittee is authorized to discharge treated wastewater to the evaporation lagoon. The treated water discharged shall be limited and

monitored as specified below:

<u>CONSTITUENTS</u>	<u>CONCENTRATION LIMITATION</u>	<u>MONITORING FREQUENCY</u>	<u>REQUIREMENT SAMPLE TYPE</u>
Filtrable Aluminum (Al)	.	4 X/month (Weekly)	Composite
Filtrable Copper (Cu)	5.0 mg/l	4 X/month (Weekly)	Composite
Nitrate as N	50.0 mg/l	4 X/month (Weekly)	Grab
pH	not less than 5.0 or more than 10.0	4 X/month (Weekly)	Grab

(a) Metal ion concentrations are to be determined from the sample filtrate resulting from filtering the sample through a 0.45 micron filter.

2. The swamp area south of the lagoon shall be monitored as specified below at a station established by the Basin Engineer:

<u>CONSTITUENTS</u>	<u>CONCENTRATION</u>	<u>MONITORING REQUIREMENTS</u>	
Filtrable Aluminum		4 X/month	Grab
Filtrable Copper		4 X/month	Grab
Nitrate as Nitrogen		4 X/month	Grab

C. Final Effluent Limitations

During the period beginning July 1, 1977 and lasting until the expiration date of this permit the permittee is authorized to discharge treated wastewater to the evaporation lagoon. Treated water discharged shall be limited and monitored as specified below:

<u>CONSTITUENTS</u>	<u>CONCENTRATION</u>	<u>MONITORING REQUIREMENT</u>
Filtrable Copper	1.0 mg/l	4 X/month (Weekly) Composite
Filtrable Aluminum	10.0 mg/l	4 x/month (Weekly) Composite
Nitrate as Nitrogen	10.0 mg/l	4 X/month (Weekly) Grab
pH	Not less than 6.5 nor more than 10.0	4 X/month (Weekly) Grab

D. The permittee is authorized to discharge treated sanitary sewage from a septic tank to the groundwaters of the state via a tile field.

E. Schedule of Compliance

The permittee shall achieve compliance with the effluent limitations specified for treated wastewater disposal to sub-surface waters in accordance with the following schedule:

1. Submit progress report to the Chief Engineer of the Michigan Water Resources Commission on or before December 31, 1975.

2. Submit a preliminary engineering report and basis of design for said facilities to the Chief Engineer of the Michigan Water Resources Commission and obtain his approval thereof on or before March 31, 1976.

3. Submit progress report to the Chief Engineer of the Michigan Water Resources Commission on or before July 1, 1976.

4. Submit final plans and specifications for said facilities to the Chief Engineer of the Michigan Water Resources Commission and obtain his approval

thereof on or before December 31, 1976.

5. Commence construction of said facilities on or before March 31, 1977.

6. Complete construction of said facilities July 1, 1977.

7. Attain operational level necessary to meet the limitations specified herein on or before August 1, 1977.

This Permit shall be final in the absence of a request for a hearing filed within fifteen days (15) after receipt hereof.

MICHIGAN WATER RESOURCES COMMISSION

MONITORING REQUIREMENTS

PERMIT No. . M 00167

HI MILL MANUFACTURING

HIGHLAND TOWNSHIP, OAKLAND COUNTY

MONITORING CONDITIONS

1. The applicant shall monitor the plant effluent prior to discharge into the ground in accordance with the following:

<u>*PARAMETER</u>	<u>*FREQUENCY OF SAMPLING</u>	<u>*TYPE OF SAMPLE</u>
Cu (Filtrable)	4 X/month (weekly)	Composite
Al (filtrable)	4 X/month (weekly)	Composite
Nitrate	4 X/month (weekly)	Grab - Effluent
pH	4 X/month (weekly)	Grab - Effluent

*The effluent monitoring, influent monitoring and operational monitoring will also include additional testing as required by the Chief Engineer of the Commission, Michigan Department of Public Health and the certified operator(as required in Special Conditions, Section C) of the facility to operate the facility in compliance with all the provisions, implied and specified, of this permit.

2. Monitoring wells shall be monitored quarterly as follows:

<u>PARAMETER</u>	<u>FREQUENCY OF SAMPLE</u>	<u>TYPE OF SAMPLE</u>
Nitrate Nitrogen	4 X/year (quarterly)	Grab
Al	4 X/year (quarterly)	Grab
Cu	4 X/year (quarterly)	Grab
pH	4 X/year (quarterly)	Grab

Discharge Conditions to be met by July 1, 1977

Cu (filtrable)	1 mg/l
Al (filtrable)	10 mg/l
Nitrate	10 mg/l
pH	Not less than 6.5 or greater than 9.0

Discharge of sanitary sewage should be permitted with the stipulation that the sewage will be discharged to the ground and not to the lagoon since heavy metals in the lagoon will interfere with biological oxidation of the sewage.